


FORM PTO-1449 	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. PARAL-7	SERIAL NO. 10/676,933
		APPLICANT Eugeni Namsaraev	
		FILING DATE September 30, 2003	GROUP N/A 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
KM	6,458,530	10/2002	Morris et al.			
↓	6,150,516	11/2000	Brenner et al.			
↓	6,110,668	08/2000	Strizhov et al.			
↓	6,020,138	02/2000	Akhavan-Tafti			
↓	6,013,456	01/2000	Akhavan-Tafti			
↓	6,001,614	12/1999	Akhavan-Tafti			
↓	5,998,175	12/1999	Akhavan-Tafti			
↓	5,380,831	01/1995	Adang et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
KM	WO 02/057491	07/2002	WIPO				
↓	WO 96/05228	02/1996	WIPO				


OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIALS	
KM	Chalmers et al., "Chromosome Walking by Cloning of Distinct PCR Fragments", <i>Biotechniques</i> , 30:249 (2001)
↓	Fan et al., "Parallel Genotyping of Human SNPs using Generic High-density Oligonucleotide Tag Arrays", <i>Genome Res.</i> , 10:853-860 (2000)
↓	Hardenbol et al., "Multiplexed genotyping with sequence-tagged molecular inversion probes", <i>Nature Biotechnol.</i> , 21(6) 673-678 (2003)
↓	Henegariu et al., "Custom Fluorescent Nucleotide Synthesis as an Alternative Method for Nucleic Acid Labeling", <i>Nature Biotechnol.</i> , 18:345-348 (2000)
↓	Kneidinger et al., "Scaling Up the Ligase Chain Reaction-Based Approach to Gene Synthesis", <i>Biotechniques</i> , 30:249-252 (2001)
↓	Kokoris et al., "High-throughput SNP Genotyping With the Masscode System", <i>Mol. Diagn.</i> , 5(4): 329-340 (2000)

EXAMINER

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIALS	
KM	Kricka et al., "Comparison of 5-Hydroxy-2, 3-Dihydrophthalazine-1, 4-dione and Luminol as Co-substrates for Detection of Horseradish Peroxidase in Enhanced Chemiluminescent Reactions", <i>J. Immunoassay</i> , 17(1): 67-83 (1996)
	Lundqvist et al., "Influence of Different Luminols on the Characteristics of the Chemiluminescence Reaction in Human Neutrophils", <i>J. Biolumin. Chemilumin.</i> , 10(6): 353-359 (1995)
	Pritchard et al., "Effects of base mismatches on joining of short oligodeoxynucleotides by DNA ligases", <i>Nucleic Acids Research</i> , 25(17): 3403-3407 (1997)
	Pusch et al., "MALDI-TOF mass spectrometry-based SNP genotyping", <i>Pharmacogenomics</i> , 3(4): 537-548 (2003)
	Shoemaker et al., "Quantitative phenotypic analysis of yeast deletion mutants using a highly parallel molecular bar-coding strategy", <i>Nature Genetics</i> , 14(4):450-456 (1996)
	Szybalski et al., "Class-IIS restriction enzymes – a review", <i>Gene</i> , 100:13-26 (1991)
	Thorpe et al., "Enhanced Chemiluminescent Reactions Catalyzed by Horseradish Peroxidase", <i>Methods Enzymol.</i> , 133:331-353 (1986)

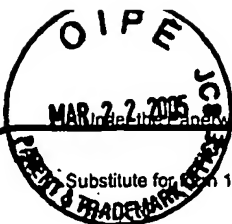
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/Kimberly Makar/

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

2

Complete if Known

Application Number	10/676,933
Filing Date	30 September 2003
First Named Inventor	Namsaraev
Art Unit	1637 1636
Examiner Name	N/A makar
Attorney Docket Number	PARAL-7

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KM ↓		us-2004/0101835	05-27-2004	Willis	
		us-6,013,445	01-11-2000	Albrecht	
		us-5,888,737	03-30-1999	DuBridge	
		us-5,366,877	11-22-1994	Keith	
		us-5,093,245	03-03-1992	Keith	
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Application Number	10/676,933
Filing Date	30 September 2003
First Named Inventor	Namsaraev
Art Unit	1637 1636
Examiner Name	N/A makar
Attorney Docket Number	PARAL-7

Sheet

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of

2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KM		BORODINA et al, "Ligation-based synthesis of oligonucleotides with block structure," Anal. Biochem., 318: 309-313 (2003).	
		DOLINNAYA et al, "Oligonucleotide circularization by template-directed chemical ligation," Nucleic Acids Research, 21: 5403-5407 (1993).	
		HAYDEN et al, "Gene synthesis by serial cloning of oligonucleotides," DNA, 7: 571-577 (1988).	
		LEBEDENKO et al, "Method of artificial DNA splicing by direct ligation (SDL)," Nucleic Acids Research, 19: 6757-6761 (1991).	
		MANDECKI et al, "Fok I method of gene synthesis," Gene, 68: 101-107 (1988).	
		NARANG et al, "'In vitro' method of assembling a synthetic gene," Biochem. Biophys. Res. Comm., 134: 407-411 (1986).	
		RINK et al, "A large fragment approach to DNA synthesis: total synthesis of a gene for the protease inhibitor eglin c from the leech Hirudo medicinalis and its expression in E. coli," Nucleic Acids Research, 12: 6369-6387 (1984).	
		RUBIN et al, "Convergent DNA synthesis: a non-enzymatic dimerization approach to circular oligonucleotides," Nucleic Acids Research, 23: 3547-3553 (1995).	
		SUNG et al, "Simultaneous synthesis of human-, mouse- and chimeric epidermal growth factor genes via 'hybrid gene synthesis' approach," Nucleic Acids Research, 14: 6159-6168 (1986).	
		WANG et al, "Oligonucleotide circularization by 'template-mediated' ligation with T4 RNA ligase: synthesis of circular hammerhead ribosymes," Nucleic Acids Research, 26: 2502-2504 (1998).	
✓		WOLTERS et al, "Construction of a 42 base pair double stranded DNA microcircle," Nucleic Acids Research, 17: 5163-5172 (1989).	

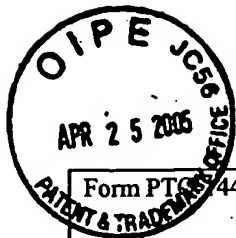
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Form PTCE 449 (adapted) REFERENCES CITED BY APPLICANT	Docket No. PARAL-7 US (502.02)	Serial No. 10/676,933
	First Named Inventor Namsaraev	Customer No.
	Filing Date 30 September 2003	Group 1636

FOREIGN PATENT DOCUMENTS

Examiner's Initial		Country and Document Number	Inventor	Title	Publication Date (dd-mm-yyyy)
KM	FF1	WO 2004/092375	Soldatov	Ligation-based synthesis of oligonucleotides with block structure	28 Oct 2004
KM	FF2	EP 1 327 682 A1	Aygun	Verfahren zur Herstellung von DNA [Method of synthesizing DNA]	16 Aug 2003

OTHER REFERENCES

Examiner's Initial		Citation
KM	D12	Myer and Day, "Synthesis and application of circularizable ligation probes," Biotechniques, 30(3): 584-593 (2001).

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	First Named Inventor Namsaraev	Customer No.
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U.S. PATENT DOCUMENTS

Examiner's Initial		Country and Document Number	Inventor	Title	Publication Date (dd-mm-yyyy)
KM	FF3	2003/0096291A1	Faham	Multiplex oligonucleotide addition and target amplification	22 May 2003

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Application Number	10676933
Filing Date	2003-09-30
First Named Inventor	Namsaraev
Art Unit	1636
Examiner Name	Quidry makar
Attorney Docket Number	4011.2

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
KM	1	6277632	B1	2001-08-21	Harney	
KM	2	6495318	B1	2002-12-17	Harney	

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First Named Inventor	Namsaraev
Art Unit	1636
Examiner Name	Guidry makar
Attorney Docket Number	4011.2

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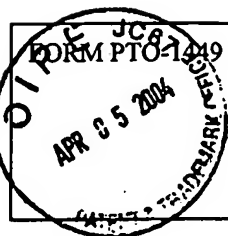
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PATENT AND TRADEMARK OFFICE

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PARAL-7

SERIAL NO.
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APPLICANT
Eugeni Namsaraev

FILING DATE
September 30, 2003

GROUP
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KM	US 2002/0051986	05/2002	Baez et al.			
↓	5,696,249	12/1997	Gold et al.			
	5,525,470	06/1996	Cohen et al.			

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